Giulia Matilde Ferrante

Curriculum Vitae

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Personal information

First name	Giulia Matilde
Last name	Ferrante
Birth	Firenze, 5th of January 1991
Nationality	Italian

Work experience

December 2018 – Present
Research grant.
OGS, Trieste, Italia

Subject: Seismic data analysis for the petrophysical characterization and for the assessment of fluid presence in the Sicily Channel.
Supervisor: Dr.Flavio Accaino (OGS)

March 2018 – May 2018
PhD internship.
IFPEN, Rueil-Malmaison, France

Subject: Petrophysical inversion on seismic data from Northern Adriatic Sea to characterize gas leakages.
Supervisor: Dr.Mathilde Adelinet (Geosciences Division, IFPEN)

September 2017
FASTMIT Cruise.
R/V OGS Explora, Sicily Channel

Scientific aims: Study of the seismogenic potential of Capo Granitola fault and Sciacca fault.
Acquired data: High-resolution multibeam bathymetry, high-resolution seismic data, magnetic profiles, multichannel seismic data.
Chief Scientist: Dr.Emanuele Lodolo (OGS, Trieste)

April 2016– May 2016
WestMedFlux Cruise.
R/V L'Atalante, Western Mediterranean

Scientific aims: Thermal signatures of the ocean-continent transitions, and the role of fluids and salt diapirs.
Acquired data: Multibeam bathymetry, high-resolution seismic data, magnetic profiles, heat flow measurements (pogo-type), termal conductivity measurements and pore-water sampling on cores.
Chief Scientist: Dr.Jeffrey Poort (UPMC, Paris)

September 2014 – December 2014 **Work Internship**.
EGS survey International Ltd., Bordon, UK

Subject: Processing of marine seismic data and bathymetric data. Collaboration with project managers.
Supervisor: Dr.Walter Colautti (Project Manager at EGS International Ltd.)

March 2012 – July 2012 **Research Internship**.
International Centre for Theoretical Physics, Trieste, Italy

Subject: Programming in C and Python in order to implement the 'Game of life' model.
Supervisor: Prof.Giorgio Pastore (Department of Physics, UNITS)

Education and training

November 2015 – Present **Phd in Earth Physics and Fluid Mechanics**.
OGS-Istituto nazionale di oceanografia e geofisica sperimentale, Trieste, Italy

Project: A multidisciplinary geophysical approach to recognize and quantify the gas occurrence in the Northern Adriatic.
Supervisor: Dr.Angelo Camerlenghi (OGS)
Co-supervisors: Dr.Federica Donda, Dr.Valentina Volpi, Dr.Umberta Tinivella (OGS)

November 2012 – March 2015 **Master of Science in Physics**.
Università degli Studi di Trieste, Trieste, Italy

Thesis: Single-channel seismic data analysis for high-resolution imaging.
Supervisor: Prof.Michele Pipan
Final Grade: 110/110 cum laude

September 2009 – November 2012 **Bachelor Degree in Physics**.
Università degli Studi di Trieste, Trieste, Italy

Thesis: Semiclassical Dynamics of Bloch Electrons.
Supervisor: Prof. Raffaele Resta
Final Grade: 100/110

September 2004 – June 2009 **Secondary School in Classical Studies**.
Liceo Classico A.Manzoni, Lecco, Italy

Final Grade: 85/100

Personal Skills

Languages

Mother tongue: *Italian*

Other languages	Listening	Reading	Spoken interaction	Spoken production	Writing
English	C1	C1	B2	B2	C1
French	B2	B2	B1	B2	B1

Levels: A1/2= Basic user- B1/2= Independent user - C1/2 = Proficient user
Common European Framework of Reference for Languages

Computer Skills

- Knowledge of the main software packages in various operating systems (**Win, MAC OS, Unix, Unix-like**)
- Knowledge of various programming languagues:
  - mainly used: **Python, BASH**
  - for document preparation: **LaTeX**
- Knowledge of various commerical softwares for processing seismic data and geophysical logs:
  - **Echos** and **GeoDepth** (*Paradigm*)
  - **RadExPro** (*DECO geophysical*)
  - **Easytrace** and **Interwell** (*Beicip Franlab*)
  - **EMERGE** (*CGG*)
- Knowledge of Seismic Unix (**SU**)

Driving licence: B

Scientific activities

Active partecipation (with posters or talks) to several national and international conferences, workshops and schools.

Scientific production

- Donda, F. et al., (2018), *The Origin of Gas Seeps in the Northern Adriatic Sea*, Italian Journal of Geoscience.
- Poort, J. et al., *Heat flow in the Western Mediterranean: new data from the MedSalt and WestMedFlux cruises and consequences for regional predictive mapping*, manuscript submitted to Marine Geology.
- Brancolini G. et al., *New insights on the Adria Plate geodynamics*, manuscript under revision in Scientific Reports.

Awards

⋆ Prize *Giovane Ricercatore AGLC 2018 (GNGTS)* in Applied Geophysics

Professional memberships

⋆ *Society of Exploration Geophysicist* SEG (since 2014)

⋆ *European Association of Geoscientists & Engineers* EAGE (since 2015)

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January 9, 2019